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NOTICE OF ALLOWANCE AND FEE(S) DUE

22116 7590 10/08/2009
SIEMENS CORPORATION
INTELLECTUAL PROPERTY DEPARTMENT
170 WOOD AVENUE SOUTH
ISELIN. NI 08830

EXAMINER						
WONGWIAN, PHUTTHIWAT						
ART UNIT	PAPER NUMBER					
3741						
DATE MAILED: 10/05/2009						

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/561,641	12/20/2005	Stefan Hoffmann	2003P00694WOUS	6107	

TITLE OF INVENTION: OPEN COOLED COMPONENT FOR A GAS TURBINE, COMBUSTION CHAMBER, AND GAS TURBINE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/05/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
170 WOOD AV	AL PROPERTY DE ENUE SOUTH		MENT	I be	Cer	tificate	e of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the d	deposited.	with the United il in an envelope being facsimile ed below.
ISELIN, NJ 088	30								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATION			MATION NO.
10/561,641	12/20/2005			Stefan Hoffmann		20	03P00694WOUS		6107
				TURBINE, COMBUSTIO					
APPLN, TYPE	SMALL ENTITY	ISSU	Æ FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE \$1810		
nonprovisional	NO		\$1510	\$300	\$0	\$0		0	1/05/2010
EXAMINER			RT UNIT	CLASS-SUBCLASS					
WONGWIAN, PHUTTHIWAT 374I				060-752000	_				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA iess an assignee is ident h in 37 CFR 3.11. Com	nge of C ' Indicati ed. Use o	on form of a Customer PRINTED ON T	2. For printing on the j (1) the names of up to congents OR, alternatic (2) the name of a sing registered attorney or 2 registered patent attellisted, no name will be PHE PATENT (print or ty data will appear on the j a substitute for filing an (B) RESIDENCE: (CIT*	o 3 registered pater vely, le firm (having as a agent) and the nam ymeys or agents. If printed. pe) aatent. If an assign assignment.	memb es of u no nan	p to p to get is 3 dentified below, the d	ocument ha	as been filed for
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	nred) wi tes Paten	II not be accepted t and Trademark	from anyone other than Office.	the applicant; a regi	stered	attorney or agent; or th	ne assignee	or other party in
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NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offic Address: COMMISSIONER FOR PATENTS

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10/561,641	1 12/20/2005		Stefan Hoffmann	2003P00694WOUS	6107		
22116	7590	10/05/2009	9 EXAMINER				
SIEMENS CO	SIEMENS CORPORATION				PHUTTHIWAT		
INTELLECTU	INTELLECTUAL PROPERTY DEPARTMENT				PAPER NUMBER		
	170 WOOD AVENUE SOUTH						
ISELIN, NJ 08	830		DAME MARKET IN TOURS OF STREET				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 484 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 484 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Application No. Applicant(s) 10/561,641 HOFFMANN, STEFAN Notice of Allowability Examiner Art Unit PHUTTHIWAT WONGWIAN 3741 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the amendment filed on 03/06/2009. The allowed claim(s) is/are 11-16 and 19. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3.
☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s)

1. | Notice of References Cited (PTO-892)

- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

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DETAILED ACTION

Response to Amendment

 This office action is responsive to the amendment filed on 03/06/2009. Claims 1-10 and 17-18 have been canceled and thus claims 11-16 and 19 are currently pending in this application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with lanet Hood on 9/2/2009

The application has been amended as follows:

Claims 11 and 19 have been amended to - -

11. (currently amended) An open-cooled blade for a gas turbine, comprising: a root portion; and an airfoil portion, wherein the airfoil portion comprises: an outer wall exposed to a hot gas, a first cavity partly defined by the outer wall and for a first medium, a plurality of through-openings arranged in the outer wall where the through-openings open into the first cavity on a first side and into the hot-gas space on a second side, and a second cavity for admixing a second medium, the second cavity being

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fluidically connected to the through-openings,

wherein the second cavity is formed by supply passages that are provided in the outer wall and are connected via transverse passages to the through-openings designed as through-bores, so that the two media cannot be mixed until inside the through-bores, wherein the first medium is a different substance than the second medium.

 (currently amended) A gas turbine, comprising: a compressor section; a turbine section; a combustion chamber; and

a plurality of blades where each blade comprises: an outer wall exposed to a hot gas, a first cavity partly defined by the outer wall and for a first medium, a plurality of through-openings arranged in the outer wall where the through-openings open into the first cavity on a first side and into the hot-gas space on a second side, and a second cavity for admixing a second medium, the second cavity being fluidically connected to the through-openings, wherein the second cavity is formed by supply passages provided in the outer wall and connected via transverse passages to the through-openings designed as through-bores, so that the two media cannot be mixed until inside the through-bores, wherein the first medium is a different substance than the second medium. - -

Note that the support of examiner's amendment can be found on page 7, lines 10-24 of the specification.

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Allowable Subject Matter

- Claims 11-16 and 19 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The closest prior art Birkner (US Patent No. 6,582,194) discloses an open-cooled blade for a gas turbine, comprising: a root portion 2 (fig. 1); and an airfoil portion 1 (fig. 1), wherein the airfoil portion comprises: an outer wall 9 (fig. 1) exposed to a hot gas, a first cavity (fig. 1, within the blade) partly defined by the outer wall and for a first medium (fig. 1, compressed air), a plurality of through-openings 8, 10 (fig. 5) arranged in the outer wall 9 (fig. 1) where the through- openings 8, 10 (fig. 5) open into the first cavity (fig. 5, within the blade) on a first side (fig. 5) and into the hot-gas space on a second side 9 (fig. 5), and a second cavity 7 (fig. 5).

However, Birkner fails to disclose or render obvious of the second cavity for admixing a second medium, the second cavity being fluidically connected to the through-openings, wherein the second cavity is formed by supply passages that are provided in the outer wall and are connected via transverse passages to the through-openings designed as through-bores, so that the two media cannot be mixed until inside the through-bores, wherein the first medium is a different substance than the second medium

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/561,641

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUTTHIWAT WONGWIAN whose telephone number is 571-270-5426. The examiner can normally be reached on Monday - Thursday, 7:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL A. CUFF can be reached on 571-272-6778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Examiner, Art Unit 3741

/Michael Cuff/

Supervisory Patent Examiner, Art Unit 3741